

27.085
St. Louis Thermal Energy

JOHN ASHCROFT
Governor

G. TRACY MEHAN III
Director



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Division of Energy
Division of Environmental Quality
Division of Geology and Land Survey
Division of Management Services
Division of Parks, Recreation,
and Historic Preservation

DIVISION OF ENVIRONMENTAL QUALITY

ST. LOUIS REGIONAL OFFICE
10805 Sunset Office Drive, Suite 100
St. Louis, MO 63127-1017
314-822-0101

August 20, 1991

Mr. Ken Rung, Plant Engineer
St. Louis Thermal Energy
1 Ashley Place
St. Louis, MO 63102

Fax No. 314-822-0943

Dear Mr. Rung:

L.O.W. #91-SL.045

Enclosed, please find a report of an inspection conducted at your facility by Mr. Bob Carlson of my staff on July 26, 1991.

Please note that the section titled "UNSATISFACTORY FEATURES" lists violations noted during the inspection, and outlines steps the inspector has determined will correct those violations.

In order to document that corrective actions have been taken, you are requested to submit a written response no later than September 12, 1991. The response should describe the steps taken to correct each of the unsatisfactory features identified. Please direct the response to Mr. Carlson. You should also forward a copy of your response and supporting documentation to Mr. Bruce Martin - Hazardous Waste Enforcement, Waste Management Program, P.O. Box 176, Jefferson City, Missouri 65102.

It is our purpose by this letter to persuade you to take all necessary actions to comply with the Missouri Hazardous Waste Management Law. Failure to achieve timely resolution of violations may result in the referral of this case for enforcement action by the Waste Management Program.

Should you have any questions, or wish to confer in this matter, please contact Mr. Carlson.

Sincerely,

ST. LOUIS REGIONAL OFFICE

Robert S. P. Eck
Regional Administrator

RSPE/BC/cc

Enclosure

c: WMP ✓



R00136572
RCRA RECORDS CENTER

RECEIVED
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WASTE MANAGEMENT PROGRAM
MISSOURI DEPARTMENT OF
NATURAL RESOURCES



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RESOURCE CONSERVATION AND RECOVERY ACT
AND
MISSOURI HAZARDOUS WASTE MANAGEMENT LAW
COMPLIANCE EVALUATION INSPECTION REPORT

Facility

St. Louis Thermal Energy Corp.
1 Ashley Place
St. Louis, MO 63102
(314) 621-3550

EPA ID #: MOD000805499
MO Generator ID: 001383

Participants

Department of Natural Resources (MDNR)

Mr. Bob Carlson
Environmental Specialist
St. Louis Regional Office

St. Louis Thermal Energy

Mr. Ken Rung
Plant Engineer

Introduction

An inspection of St. Louis Thermal Energy, located at the above address, was conducted on July 26, 1991. The inspection was conducted under the authority of the Resource Conservation and Recovery Act (RCRA) of 1976 and Sections 260.375(9) and 260.377 of the Missouri Hazardous Waste Management Law (1977) as amended. The inspection was confined to facets of the operation relevant to hazardous waste management.

Facility Description

St. Louis Thermal Energy is a facility housing oil-burning boilers. Steam heat is generated and sold to several large buildings in downtown St. Louis, including Union Station. Energy is generated year-round.

Hazardous waste is generated during annual cleanouts of ash from traps in the smokestacks and elsewhere in the system. Two (2) large dumpsters of ash are normally accumulated over one or two months.

The ash contains cadmium, chromium and lead, and fails TCLP for all three, and is thus registered as D006/D007/D008. The waste is hauled by Peoria Disposal Co. to its landfill in Peoria, Illinois, in amounts of approximately 9000 pounds per year or more.

Small amounts of a D002 caustic cleaner have been generated in the past, but an alternative non-hazardous product is being sought to replace it.

Unsatisfactory Features

1. Failure to have a facility training plan or contingency plan, in violation of 40 CFR 265.16 and 40 CFR 265.50, incorporated by reference in 40 CFR 262.34(a)(4), incorporated by reference in 10 CSR 25-5.262(2)(C). Although the facility is only a generator for one or two months out of each year, quantities in excess of 1000 kilograms are accumulated during those months, and therefore the referenced plans are required. Copies of the regulations detailing the required contents and implementation of these plans are attached. The facility must prepare contingency and training plans, and conduct personnel training before the next ash cleanout is begun. Submit copies of the plans, and documentation that training has been conducted, to this office and to the Hazardous Waste Management Program for review. When approved, submit copies of the contingency plan to the local emergency response agencies.

Prepared by:



Bob Carlson
Environmental Specialist
St. Louis Regional Office

BC/cc

LARGE QUANTITY GENERATOR CHECKLIST

Form LQG-INSP
(10-15-88)

Name of Facility: St. Louis Thermal Energy Date: 7-26-91
Address: 1 Ashley Place Other Inspections Done:
St. Louis, Mo 63102 RR TRANS LDR
OTHER
Phone: (314) 621-3550 MO ID# 001383 EPA ID# MO D000805499
Facility Representative: Ken Rung Title: Plant Engineer

Briefly describe manufacturing process(es). (Use continuation sheet, if needed.)

oil is burned for steam heat, which is sold for energy.Ash is cleaned from traps annually.Facility was run/owned by U.E. prior to 1988.

List of wastes generated. (Use continuation sheet, if needed.)

	<u>Waste</u>	<u>Amount/Month</u>	<u>Disposition</u>
1.	<u>D006/D007/D008 ash</u>	<u>~9000 lb/yr.</u>	<u>PDC - HW LF</u>
2.	<u> </u>	<u> </u>	<u> </u>
3.	<u> </u>	<u> </u>	<u> </u>
4.	<u> </u>	<u> </u>	<u> </u>
5.	<u> </u>	<u> </u>	<u> </u>

A. MANIFESTS AND RECORDKEEPING 10 CSR 25-5.262(2) AND 5.262(2)(B) AND (D)

Generator's MO and EPA I.D. Numbers. (✓)
Manifest document number (MO I.D. & Shipment #). (✓)
EPA Waste I.D. codes (✓)
Generator's name, address, phone # (✓)
All Transporters' names, phone #'s, MO and EPA I.D. #'s. (✓)
Designated facility name, address, phone # and MO and EPA I.D. # (✓)
Proper DOT Shipping Name, Hazard Class and I.D. # (✓)
Containers, Quantity and Unit Wt/Vol being shipped properly designated (✓)
Proper certification including waste minimization. (✓)
Manifest properly signed and dated (✓)
No more than 10 days time between generator and facility signatures. (✓)
Manifests returned within 35 days. (✓)
If not, exception generator report submitted within 45 days. (✓)
Completed manifests and Summary Manifest Report and Certification. (✓)
Spills of reportable quantities reported to DNR. (✓)

B. PRETRANSPORT, CONTAINERIZATION AND LABELING 10 CSR 25-5.262(2) AND 5.262(2)(C)1

(no waste onsite during insp.)
Waste Packaged, marked and labeled per DOT during entire on-site storage period and prior to transport. (✓)
Placards available for use by transporters (✓)
Satellite accumulation requirements met (if applicable). (✓)
a. Stored in satellite areas less than 1 year. (✓)
b. Containers marked identifying contents and beginning date (✓)
c. Containers kept closed/compatible/good condition. (✓)
d. Quantities accumulated not exceeding 55 gal. (1 qt. acutely hz. waste). (✓)

C. STORAGE STANDARDS 10 CSR 25-5.262(2) AND 5.262(2)(C)2 AND 3

Facility inspected and maintained. (✓)
Date of accumulation marked. (✓)
Storage less than 90 days (unless small quantity generator). (✓)

D. CONTAINER STORAGE 10 CSR 25-5.262(2) AND 5.262(2)(C)2

Containers in good condition (✓)
Containers kept closed in storage. (✓)
Containers storing incompatible waste separated or protected from each other. (✓)
Containers of ignitable or reactive waste stored > 50 feet from property line (✓)
Containers stored within a containment system (if applicable) meeting criteria of 10 CSR 25-5.262(2)(C)2.B. (✓)

E. STORAGE TANKS 10 CSR 25-5.262(2) AND 5.262(2)(C)2.C.
(See tank checklist)

N/A

F. PERSONNEL TRAINING 10 CSR 25-5.262(2)

- Documentation of hazardous waste director's qualifications or training. ☒
- Completed classroom or on-the-job training. ☒
- Job title, description, and name of person filling position ☒
- Written record of the type and amount of training given ☒
- Documentation confirming that training has been given ☒

G. PREPAREDNESS AND PREVENTION 10 CSR 25-5.262(2) AND 5.262(2)(C)2.E.

- Internal communication or alarm system. ☒
- Device in the hazardous waste operation area capable of summoning emergency assistance. ☒
- Fire control, spill control, and decontamination equipment available. ☒
- Adequate water supply for fire control equipment. ☒
- Adequate and proper safety equipment available. ☒
- Adequate aisle space. ☒
- Arrangements with local emergency agencies. ☒

H. CONTINGENCY PLAN AND EMERGENCY PROCEDURES 10 CSR 25-5.262(2)

- Contingency Plan. ☒
- Detailed description of procedures that personnel must implement to respond to fires, explosions, or releases of hazardous waste. ☒
- Describe formal arrangements with emergency agencies. ☒
- Name, addresses, and phone numbers (home & office) of emergency coordinators. ☒
- Emergency equipment including its description and location. ☒
- Evacuation plan if applicable ☒

I. WASTE OIL 10 CSR 25-11.010

N/A

- Written waste oil contract maintained ☒
- Waste oil properly stored and transported ☒

COMMENTS:

no waste in storage during inspection.

Inspector Signature & Title:

MT L C ESTI

Office:

SLRD

IN COMPLIANCE ☒

IN VIOLATION OR
ABSENT ☒

is imminent or has already occurred, remedial action must be taken immediately.

(d) The owner or operator must record inspections in an inspection log or summary. He must keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.

(Approved by the Office of Management and Budget under control number 2050-0013)

[45 FR 33232, May 19, 1980, as amended at 50 FR 4514, Jan. 31, 1985; 51 FR 25478, July 14, 1986; 55 FR 25506, June 21, 1990]

EFFECTIVE DATE NOTE: At 55 FR 25506, June 21, 1990, in § 265.15, the last sentence of paragraph (b)(4) was revised, effective December 21, 1990. For the convenience of the user the superseded text appears as follows:

(b) . . .

(4) . . . At a minimum, the inspection schedule must include the items and frequencies called for in §§ 265.174, 265.193, 265.195, 265.226, 265.347, 265.377, and 265.403.

§ 265.16 Personnel training.

(a)(1) Facility personnel must successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of this part. The owner or operator must ensure that this program includes all the elements described in the document required under paragraph (d)(3) of this section.

(2) This program must be directed by a person trained in hazardous waste management procedures, and must include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed.

(3) At a minimum, the training program must be designed to ensure that

facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including where applicable:

(i) Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;

(ii) Key parameters for automatic waste feed cut-off systems;

(iii) Communications or alarm systems;

(iv) Response to fires or explosions;

(v) Response to ground-water contamination incidents; and

(vi) Shutdown of operations.

(b) Facility personnel must successfully complete the program required in paragraph (a) of this section within six months after the effective date of these regulations or six months after the date of their employment or assignment to a facility, or to a new position at a facility, whichever is later. Employees hired after the effective date of these regulations must not work in unsupervised positions until they have completed the training requirements of paragraph (a) of this section.

(c) Facility personnel must take part in an annual review of the initial training required in paragraph (a) of this section.

(d) The owner or operator must maintain the following documents and records at the facility:

(1) The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job;

(2) A written job description for each position listed under paragraph (d)(1) of this Section. This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but must include the requisite skill, education, or other qualifications, and duties of facility personnel assigned to each position;

(3) A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under paragraph (d)(1) of this section;

(4) Records that document that the training or job experience required under paragraphs (a), (b), and (c) of this section has been given to, and completed by, facility personnel.

(e) Training records on current personnel must be kept until closure of the facility. Training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.

(Approved by the Office of Management and Budget under control number 2050-0013)

[45 FR 33232, May 19, 1980, as amended at 50 FR 4514, Jan. 31, 1985]

§ 265.17 General requirements for ignitable, reactive, or incompatible wastes.

(a) The owner or operator must take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. This waste must be separated and protected from sources of ignition or reaction including but not limited to: Open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical, or mechanical), spontaneous ignition (e.g., from heat-producing chemical reactions), and radiant heat. While ignitable or reactive waste is being handled, the owner or operator must confine smoking and open flame to specially designated locations. "No Smoking" signs must be conspicuously placed wherever there is a hazard from ignitable or reactive waste.

(b) Where specifically required by other sections of this part, the treatment, storage, or disposal of ignitable or reactive waste, and the mixture or commingling of incompatible wastes, or incompatible wastes and materials, must be conducted so that it does not:

(1) Generate extreme heat or pressure, fire or explosion, or violent reaction;

(2) Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health;

(3) Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;

(4) Damage the structural integrity of the device or facility containing the waste; or

(5) Through other like means threaten human health or the environment.

§ 265.18 Location standards.

The placement of any hazardous waste in a salt dome, salt bed formation, underground mine or cave is prohibited, except for the Department of Energy Waste Isolation Pilot Project in New Mexico.

[50 FR 28749, July 15, 1985]

Subpart C—Preparedness and Prevention

§ 265.30 Applicability.

The regulations in this subpart apply to owners and operators of all hazardous waste facilities, except as § 265.1 provides otherwise.

§ 265.31 Maintenance and operation of facility.

Facilities must be maintained and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

§ 265.32 Required equipment.

All facilities must be equipped with the following, unless none of the hazards posed by waste handled at the facility could require a particular kind of equipment specified below:

(a) An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel;

(b) A device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams;

(c) Portable fire extinguishers, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemi-

als), spill control equipment, and decontamination equipment; and

(d) Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems.

§ 265.33 Testing and maintenance of equipment.

All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, must be tested and maintained as necessary to assure its proper operation in time of emergency.

§ 265.34 Access to communications or alarm system.

Whenever hazardous waste is being poured, mixed, spread, or otherwise handled, all personnel involved in the operation must have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee, unless such a device is not required under § 265.32.

(b) If there is ever just one employee on the premises while the facility is operating, he must have immediate access to a device, such as a telephone immediately available at the scene of operation) or a hand-held two-way radio, capable of summoning external emergency assistance, unless such a device is not required under § 265.32.

§ 265.35 Required aisle space.

The owner or operator must maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of these purposes.

265.36 [Reserved]

265.37 Arrangements with local authorities.

(a) The owner or operator must attempt to make the following arrangements, as appropriate for the type of waste handled at his facility and the

potential need for the services of these organizations:

(1) Arrangements to familiarize police, fire departments, and emergency response teams with the layout of the facility, properties of hazardous waste handled at the facility and associated hazards, places where facility personnel would normally be working, entrances to roads inside the facility, and possible evacuation routes;

(2) Where more than one police and fire department might respond to an emergency, agreements designating primary emergency authority to a specific police and a specific fire department, and agreements with any others to provide support to the primary emergency authority;

(3) Agreements with State emergency response teams, emergency response contractors, and equipment suppliers; and

(4) Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or releases at the facility.

(b) Where State or local authorities decline to enter into such arrangements, the owner or operator must document the refusal in the operating record.

Subpart D—Contingency Plan and Emergency Procedures

§ 265.50 Applicability.

The regulations in this subpart apply to owners and operators of all hazardous waste facilities, except as § 265.1 provides otherwise.

§ 265.51 Purpose and implementation of contingency plan.

(a) Each owner or operator must have a contingency plan for his facility. The contingency plan must be designed to minimize hazards to human health or the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water.

(b) The provisions of the plan must be carried out immediately whenever there is a fire, explosion, or release of

hazardous waste or hazardous waste constituents which could threaten human health or the environment.

(Approved by the Office of Management and Budget under control number 2050-0002)

[45 FR 33232, May 19, 1980, as amended at 50 FR 4514, Jan. 31, 1985]

§ 265.52 Content of contingency plan.

(a) The contingency plan must describe the actions facility personnel must take to comply with §§ 265.51 and 265.56 in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility.

(b) If the owner or operator has already prepared a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with Part 112 of this chapter, or Part 1510 of Chapter V, or some other emergency or contingency plan, he need only amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this part.

(c) The plan must describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services, pursuant to § 265.37.

(d) The plan must list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator (see § 265.55), and this list must be kept up to date. Where more than one person is listed, one must be named as primary emergency coordinator and others must be listed in the order in which they will assume responsibility as alternates.

(e) The plan must include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required. This list must be kept up to date. In addition, the plan must include the location and a physical description of each item on the list, and a brief outline of its capabilities.

(f) The plan must include an evacuation plan for facility personnel where there is a possibility that evacuation could be necessary. This plan must describe signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires).

(Approved by the Office of Management and Budget under control number 2050-0002)

[45 FR 33232, May 19, 1980, as amended at 46 FR 27480, May 20, 1981; 50 FR 4514, Jan. 31, 1985]

§ 265.53 Copies of contingency plan.

A copy of the contingency plan and all revisions to the plan must be:

- (a) Maintained at the facility; and
- (b) Submitted to all local police departments, fire departments, hospitals, and State and local emergency response teams that may be called upon to provide emergency services.

(Approved by the Office of Management and Budget under control number 2050-0002)

[45 FR 33232, May 19, 1980, as amended at 50 FR 4514, Jan. 31, 1985]

§ 265.54 Amendment of contingency plan.

The contingency plan must be reviewed, and immediately amended, if necessary, whenever:

- (a) Applicable regulations are revised;
- (b) The plan fails in an emergency;
- (c) The facility changes—in its design, construction, operation, maintenance, or other circumstances—in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
- (d) The list of emergency coordinators changes; or
- (e) The list of emergency equipment changes.

(Approved by the Office of Management and Budget under control number 2050-0002)

[45 FR 33232, May 19, 1980, as amended at 50 FR 4514, Jan. 31, 1985]

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